Inequality Vocabulary

LESS THAN	LESS THAN OR EQUAL TO	GREATER THAN	GREATER THAN OR EQUAL TO	
	_		11	
fewer than	At most No greater than	More than exceeds	At least No less than	
X < 1	x ≤ 1 -3 -2 -1 0 1 2 3	x > 1 -3 -2 -1 0 1 2 3	x ≥ 1 -3 -2 -1 0 1 2 3	
Ex: Fewer than 11 PEOPLE COMPLETED THE SURVEY.	EX: AT MOST 37 DOGS CAN BE LODGED IN A KENNEL.	EX: THE STUDENTS SPENT MORE THAN \$200 ON THE CLASS TRIP.	EX: SHE NEEDED AT LEAST 12 OUNCES OF MILK FOR THE RECIPE. X	

Graphing and Solving Linear Inequalities

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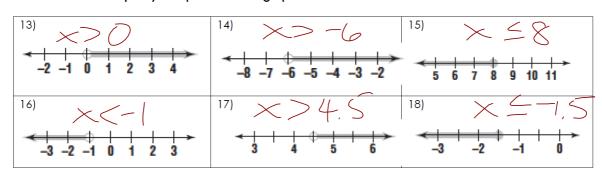
- 1) The maximum number of participants is 9
- 2) There are at least 25 cars in the parking lot
- 3) The number of tissues in the box exceeds 100
- 4) There can be no fewer than 7 students in the class
- 5) The number is no less than -11
- 6) There are at most 8 markers on the board ledge

II. Match each inequality with the correct statement.

- 7) 3n < 9
- A) Three times a number is at most nine.
- 8) $\frac{1}{3}$ n ≥ 9
- B) One-third of a number is no more than nine.
- 9) 3n ≤ 9 A
- Negative three times a number is more than nine.
- 10) -3n > 9 (
- D) Three times a number is less than 9.
- 11) $\frac{1}{3}$ n ≤ 9
- E) Negative three times a number is at least nine.
- 12) -3n ≥ 9 =

One-third of a number is greater than or equal to nine.

III. Write an inequality to represent each graph.



V. Graph each of the following inequalities.

19) $W \ge -4$



20) c < 9



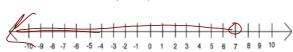
21) n ≤ -3



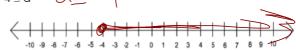
22) a > 5



23) 7>n

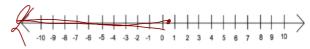


24) -4≤d <u>d≥</u>-



25) 0 < m \bigcirc





V. Solve each of the following inequalities.

31)
$$\frac{-10x \ge 20}{-10}$$

$$\cancel{X \le -2}$$

$$32) \frac{-13x}{-13} \le \frac{52}{13}$$

